



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lincoln et al  
Serial No. : To Be Assigned  
Filed : May 15, 2001  
Title : MODELING BIOLOGICAL SYSTEMS

Art Unit : Unknown  
Examiner : Unknown

Commissioner for Patents  
Washington, D.C. 20231

#4  
BP  
6-17-02

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed with the application. Please apply any charges or credits to Deposit Account No. 06-1050, citing attorney docket number 10454-016001.

Respectfully submitted,

Date: \_\_\_\_\_

5/15/01

A handwritten signature in dark ink, appearing to read "D. Feigenbaum".

David L. Feigenbaum  
Reg. No. 30,378

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

20261590.doc

## CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EL224700008US

I hereby certify under 37 CFR §1.10 that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

May 15 2001

Signature

A handwritten signature in dark ink, appearing to read "Samantha Bell".

Typed or Printed Name of Person Signing Certificate

Samantha Bell


Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 10454-016001	Application No. To Be Assigned
	Applicant Lincoln et al			
	Filing Date May 15, 2001		Group Art Unit <u>1631</u> To Be Assigned	

1033 U.S. PTO  
09/855458  
05/15/01

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
CS	AA	5,113,342	May 12, 1992	Zamora	364	419	
↓	AB	5,914,891	Jun. 22, 1999	McAdams et al	364	578	
↓	AC	6,132,969	Oct. 17, 2000	Stoughton et al	435	6	

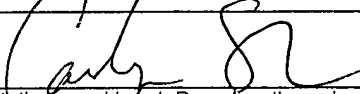
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
CS	AD	WO 99/66067	23 Dec. 1999	PCT WIP0				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AE	<del>Akutsu et al., "Identification of Genetic Networks From a Small Number of Gene Expression Patterns Under the Boolean Network Model," Bioinformatics</del>
CS	AF	Akutsu et al., "Inferring qualitative relations in genetic networks and metabolic pathways," Bioinformatics, 16:8 (2000) 727-734
↓	AG	D'haeseleer et al., "Genetic network inference: from co-expression clustering to reverse engineering," Bioinformatics, 16:8 (2000) 707-726
↓	AH	Peter D. Karp, "An ontology for biological function based on molecular interactions," Bioinformatics (2000) 16:269-285
↓	AI	Kurt W. Kohn, "Molecular Interaction Map of the Mammalian Cell Cycle Control and DNA Repair Systems, Molecular Biology of the Cell Vol. 10 (1999) 2703-2734
	AJ	<del>Liang et al., "Reveal, A General Reverse Engineering Algorithm for Inference of Genetic Network Architectures," Proc. Pacific Symp. On Biocomputing 3:18</del>
CS	AK	McAdams et al., "Circuit Simulation of Genetic Networks," Annu. Rev. Viophys. Biomol. Struct. (1998) 27:199-224
↓	AL	Ogata et al., "Computation with the KEGG pathway database," BioSystems, (1998) 47:119-128
↓	AM	Ouzounis et al., "Global Properties of the Metabolic Map of Escherichia coli," Genome Research (2000) 10:568-578
↓	AN	Owre et al., "PVS: A Prototype Verification System," Automated Deduction (1992) 607:748-752
↓	AO	Shea et al., "The O <sub>R</sub> Control System of Bacteriophage Lambda A Physical-Chemical Model for Gene Regulation," J. mol. Biol (1985) 181:211-230
↓	AP	Somogyi et al, "Modeling the Complexity of Genetic Networks: Understanding Multienic and Pleiotropic Regulation," Complexity (1996) 1:45-64
↓	AQ	Stroud et al., "Annual Review of Biophysics and Biomolecular Structure," Annual Reviews (1998) Vol. 27
↓	AR	Rene Thomas, "Regulatory Networks Seen as Asynchronous Automata: A Logical Description," J. theor. Biol. (1991) 153:1-23

Examiner Signature		Date Considered	3/18/03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10454-016001	Application No. To Be Assigned
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Lincoln et al	
		Filing Date May 15, 2001	Group Art Unit <u>1631</u> <del>To Be Assigned</del>
(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
CS	AS	Thomas et al., "A Complex Control Circuit, Regulation of Immunity in Temperature Bacteriophages Eur. J. Biochem (1976) 71:211-227
↓	AT	Rene Thomas, "Boolean Formalization of Genetic Control Circuits," J. theor. Biol. (1973) 42:563-585
	AU	Szallasi et al, "Modeling the Normal and Neoplastic Cell Cycle with "Realistic Boolean Genetic Networks" Their Application for Understanding Carcinogenesis and Assessing Therapeutic Strategies", Proc. Pacific Symp. On Biocomputing (1998) 3:66
	AV	Weng et al., "Complexity in Biological Signaling Systems," Science, (1999) 284:92-96
	AW	Yuh et al., "Genomic Cis-Regulatory Logic: Experimental and Computational Analysis of a Sea Urchin Gene, Science (1998) 279:1896-1902

Examiner Signature		Date Considered	3/18/03
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			